## What is claimed is:

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1. A piezoelectric crystal material of gallium phosphate, wherein an angle  $\alpha$  is defined to be in a range from 10° to 20°, a crystallographic Y-axis and a crystallographic Z-axis of a gallium phosphate crystal that have been rotated counterclockwise about an X-axis through the angle  $\alpha$  is referred to as a Y'-axis and a Z'-axis, respectively,

wherein said piezoelectric crystal material is provided as a plate-shaped member which is elongate in an X-axis direction and cut from the gallium phosphate crystal parallel to an X-Z' crystal plane of gallium phosphate, and said plate-shaped member has sides parallel to an axis that is obtained by rotating said Y'-axis counterclockwise about said X-axis in an angular range from 1° to 3°.

- 2. The piezoelectric crystal material according to claim 1, wherein said piezoelectric crystal material is formed in a rectangular shape that is elongate in said X-axis direction.
- 3. The piezoelectric crystal material according to claim 2, wherein said plate-shaped member has a thickness t and a width w in a direction perpendicular to said X-axis, said thickness t and said width w satisfying 3  $\leq w/t \leq 20$ .
- 4. The piezoelectric crystal material according to claim 2, wherein said angle  $\alpha$  is 15°.

- 5. The piezoelectric crystal material according to claim 4, wherein the sides of said plate-shaped member is parallel to an axis that is obtained by rotating said Y'-axis about said X-axis in said Z'-axis direction through an angle of 1.5°.
  - 6. A piezoelectric resonator of gallium phosphate, comprising: a piezoelectric crystal material; and

electrodes disposed respectively on opposite principal surfaces of said piezoelectric crystal material, for exciting piezoelectric vibrations in said piezoelectric crystal material;

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wherein an angle  $\alpha$  is defined to be in a range from 10° to 20°, a crystallographic Y-axis and a crystallographic Z-axis of a gallium phosphate crystal that have been rotated counterclockwise about an X-axis through the angle  $\alpha$  is referred to as a Y'-axis and a Z'-axis, respectively, and

wherein said piezoelectric crystal material is provided as a plate-shaped member which is elongate in an X-axis direction and cut from the gallium phosphate crystal parallel to an X-Z' crystal plane of the gallium phosphate, and said plate-shaped member has sides parallel to an axis that is obtained by rotating said Y'-axis counterclockwise about said X-axis in an angular range from 1° to 3°.

7. The piezoelectric resonator according to claim 6, wherein said piezoelectric crystal material is formed in a rectangular shape that is elongate in said X-axis direction.

8. The piezoelectric resonator according to claim 7, wherein said plate-shaped member has a thickness t and a width w in a direction perpendicular to said X-axis, said thickness t and said width w satisfying 3  $\leq w/t \leq 20$ .